



Small Molecules Regulating the Redox Landscape for Therapy

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Deadline for manuscript
submissions:

closed (15 January 2023)

Message from the Guest Editor

Dear Colleagues,

Reactive oxygen species (ROS) play a crucial role in the regulation of physiological processes; however, deregulated ROS contribute to the development of a large number of human diseases. Consequently, the cellular redox landscape is tightly controlled by complex mechanisms that have been only partially elucidated. As of today, numerous disorders have been linked to the deregulation of ROS homeostasis, including cancer, neurodegenerative diseases and psychiatric disorders. Hence, the redox landscape is an interesting therapeutic target for the development of novel pharmaceuticals. Other strategies aim to increase ROS production to sensitize cancer cells in radiotherapy or to combat infectious agents. Often, these strategies rely on small molecules that can be classified as various oxidants or antioxidants. Our increasing understanding of redox biology in conjunction with advances in chemical biology and medicinal chemistry enable researchers to create novel tools and compounds to modulate the redox landscape in human diseases.





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